

CENTRAL INTELLIGENCE AGENCY 25X1 REPORT NO. [REDACTED]

INFORMATION REPORT

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25X1

COUNTRY Germany (Russian Zone)/Poland

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SUBJECT Scientific Technical Cooperation between the
DDR and Poland

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SUPPLEMENT TO
REPORT NO.

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25X1 1. [REDACTED] resolutions passed by the Committee for
Scientific Technical Cooperation between the Soviet Zone of Germany,
Poland and Czechoslovakia. [REDACTED]

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2. Topic: Project of a department for the production of condensers for
industrial heating installations with low-loss dielectrics (ver-
lustarmer Dielektrik) (for instance, Styroflex (sic), limmer,
ceramic substances, noninductive).
Capacity - 10,000 plus 100,000 pF (Picofarad)
Operating Voltage: 10 kv.
Current - 10 amperes; Frequency - 450 kilocycles per second.
Annual capacity - 2,000 pieces.

The following is requested:

Technical project of the production department.
Designs of condensers.
Quality and quantity specifications of the material.
Production methods.
Designs of tools.
Control specifications for raw materials.
Control specifications for products.
Designs of unevaluable special machinery and equipment.
Assistance in starting production.
Training of experts in competent enterprises of the Soviet Zone
of Germany.

Resolutions: Approved in principle. The Germans will supply a report on
the status of activities in the Soviet Zone of Germany. Following this
report it is agreed that the specialists will arrive for the final preparation
of the documents.

signed Wolf

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CLASSIFICATION

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3. Topic: Techniques of the production of paper condensers with a capacity ranging from 1 to 4 microfarad, voltage up to 15 kv.
Annual production - 500 pieces.

The following is requested:

- Designs of the condensers.
- Quality and quantity specifications of the material.
- Detailed data regarding the technical process.
- Designs of the tools.
- Control specifications for raw materials.
- Control specifications for products.
- Designs of unavailable special machinery and equipment.

Resolutions: Approved in principle. The Germans will supply a report on the status of activities in the Soviet Zone of Germany. Following this report it is agreed that a Polish specialist will come for the final preparation of the documents.

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4. Topic: Techniques of the production of vacuum condensers.
Capacity - 50 to 100 pF (Picofarad)
Operating voltage - 12 kv D.C.
 12 kv A.C.
Operating frequency - up to 30 megacycles per second.
Annual production capacity - 1,000 pieces.

The following is requested:

- Designs of the condensers.
- Specifications of material.
- Description of the technical process.
- Designs of the tools.
- Control specifications for raw material.
- Control specifications for products.
- Designs of unavailable special machinery and tools.
- Training of experts in competent enterprises of the Soviet Zone of Germany.

Resolution: Approved in principle. The Germans will supply a report on the possibilities existing in the Soviet Zone of Germany. Following this report it is agreed that xxx specialists will come for the final preparation of the documents.

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5. Topic: Project of a department for the production of mass resistors (Passen-widerstaende) of a very high frequency (100 megacycles per second) for radio receivers.
Production capacity - 100,000 pieces per annum.

The following is requested:

- Technical project of the production department.
- Designs of the resistors.
- Specification of the quality and quantity of materials.
- Techniques of production.
- Designs of the tools.
- Control specifications for raw material.
- Control specifications for products.
- Designs of unavailable special machinery and equipment.
- Assistance in starting production.
- Training of experts in competent installations of the Soviet Zone of Germany.

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Resolution: Approved in principle. The Germans will supply a report on the possibilities existing in the Soviet Zone of Germany. Following this report it is agreed that xxx specialists will come for the final preparation of the documents.

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Deadline: January 1952

6. Topic: Project of a department for the production of delimited mass resistors (Begrenzungs-Massenwiderstaende) - heating conductors (with negative temperature coefficient) for securing the incandescent circle (Gluehkreis) of the tube in the universal receivers.
Production capacity: 100,000 pieces per annum.

The following is requested:

- Technical project of the production department.
- Designs of the delimited resistors.
- Specifications of the quality and quantity of materials.
- Production techniques.
- Designs of tools.
- Control specifications for raw materials.
- Control specifications for products.
- Designs of the unavailable special machinery and equipment.
- Assistance in starting production.
- Training of experts in competent installations of the Soviet Zone of Germany.

Resolution: The topic is to be deferred until 1952 because the Soviet Zone of Germany has not yet had any experience on this project.

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7. Topic: Techniques for producing pressed glass sockets (Pressglasteller) for radio tubes (series 21/22)
Daily production - 20,000 sockets.

The following is requested:

- A. Detailed description of the technical process of the preparation of the glass.

- Theoretical and practical composition of the lead glass for airtight fusing with chrome steel leads (Chrom Eisen-Durchfuehrungen) (coefficient of expansion of the chrome steel and glass should be the same).
- Physical characteristics of the glass.
- Specifications of the basic material for the production of the glass.
- Detailed description of the preliminary process (Aufbereitungsvorgaenge) and basic materials.
- Detailed description of the technical process of glass melting.
- Designs of the glass melting installations with a daily production of 200 kg of finished material (melting furnace to be fired with illuminating gas).
- Description of the methods for controlling the quality of the glass.
- Consumption coefficient (sic) for materials and productive capacity.

- B. Detailed description of the production process of chrome steel lead pins (Chrom Eisen-Durchfuehrungsstifte).

- Standards for chrome steel wire for airtight fusing with lead glass.
- Detailed description of the process of cutting wire electrodes and of rounding the ends.
- Detailed description of the technique of preparing chrome steel pins for melting into glass (methods of the chemical and thermal surface treatment, specifications for auxiliary material (Hilfsmaterialien) and for the treatment of pins).

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description of the control methods for finished electrode pins.

- C. Detailed description of the technical process of pressing and relaxing (Entspannung) the pressed glass sockets.

Designs of semi-automatic machines for hand-pressing the glass sockets.
Technical description of the installation.
Instructions for assembly and use.
Instructions for preservation.
Description of the pressing process.
Blueprints of the furnace used for automatic relaxing (Entspannen) of glass sockets.
Instructions for assembly and servicing of the furnace used for the relaxing process.
Description of the techniques of the relaxing process.
Technical specifications for pressed glass sockets.

- D. Detailed description of the fusing process for pump tubes (Pumprohren) for pressed glass sockets.

Designs of the fusing machine.
Instructions for assembly and use.
Specifications for glass for small pump tubes.
Control methods for finished pressed glass sockets.

- E. Training of experts in competent enterprises of the Soviet Zone of Germany.

Resolution: Approved. Contractors will be the "Trossglaswerk" and the "Funkwerk" in Erfurt. The contract will be concluded with the BDT.

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8. Topic: Project for a carrier frequency telephony for large electric stations (10 - 20 St/110 kv).

The following is requested:

Consultation with German experts in procuring the basic materials for project preparations (zur Bearbeitung der Projektvoraussetzungen).
Project preparations.
Preliminary project (Vorprojekt)
Technical project.
Designs.
Assistance in the assembly and in starting production.

Resolution: Approved. A meeting of the experts is scheduled to take place in Goerlitz. The contract with the BDT (Association of German Technicians) will then be concluded.

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9. Topic: Production techniques for lacquered high-power wire resistors, type Fantom, capacity ranging from 10 to 200 W, in the following designs:

- a. with terminal connection (mit Klemmanschluss)
b. with clip connection (mit Schellen).
c. with holder and cap (mit Halter und Laube).

The following is requested:

Description of the technical process and specifications of the quality and quantity of the chemical composition of the enamel. Control specifications for raw materials and products.
List of suppliers of machines, equipment and special raw materials (enamel). Technical designs of unavailable machinery, equipment and tools.

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Designs of the resistors.

Training of experts in competent enterprises of the Soviet Zone of Germany.

Resolution: Approved. The contract will be concluded with the EDT.

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10. Topic: Production techniques for metalized paper condensers.
Voltage up to 500 D.C.
Capacity ranging from 0.1 to 10 microfarad.
Production capacity: about 100,000 pieces per month.

The following is requested by the Polish:

Preliminary project of the production department.

Description of the technical process with specifications as to the quality and quantity of raw materials and control specifications for raw materials and products.

List of the suppliers of machines, workshop installations and raw materials. Technical designs of the unavailable machinery and equipment.

Assistance in starting production.

Training of Polish experts in enterprises of the Soviet Zone of Germany.

Resolution: The German decision will be made known prior to 15 July 1951.

11. Topic: Draw-plate (Ziehstein) production techniques for tungsten and molybdenum wire. The documents are to be based on similar installations of the Berlin Electric Bulb Plant and the Oberspreewerk. The production capacity must correspond to that of the planned tungsten and molybdenum wire production plant which is being worked out by the Eko Firm in Koepenick. (Resolution A 6/II).

The following is requested:

Detailed description of the technical process.

Detailed description of the intermediate and final control of operations.

List of machinery, operating and controlling installations and auxiliary equipment. Information as to supply sources and technical designs of the unavailable machinery, equipment and tools.

Resolution: Approved. Contract will be concluded with the EDT.

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12. Topic: Powder for high frequency cores (carbonyl iron in powder) for loading coils, reinforcing carrier support (Verstaerkungstraeger), long distance telephony, and receiving sets.

The following is requested:

List of directions (Rezeptur).

Description of the technical process.

Technical factors concerning raw materials and production.

List and characteristics of the production facilities.

Drawings of the special equipment.

Production and control directives.

Resolution: Approved with reservations. The German decision will be made by 1 July 1951.

Deadline: within the shortest possible time.

13. Topic: Technical documents regarding the production of raw materials and semi-finished products for electric bulbs and radio tubes.

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The following is requested:

- A. Directions for barium production (Roehrenwerk Neuhaus am Rennsteig/Thuringia).
Directions for the production of barium aluminum alloy (Chemical Combine in Bitterfeld).
Directions for alundum (sic) production (Porzellan Fabrik Neuhaus-Tschierschnitz).
- B. Calculation of alteration (also for nitrogen filling, DWG Berlin).
Production of getters for projection lamps (DWG Berlin).
Purification of rare gases (purification of argon under high pressure, krypton and argon for fluorescent tubes - Association Oxyka).
Production of shellac-free socket cement 220/221 ("Plasta" artificial resin and plastics factory in Erkner near Berlin).
Production of ceramics for large high-capacity lamps and projector lamps (IKA Porzellanfabrik Neuhaus-Schlierharz/Thuringia).
Production of colloid graphite (Graphite products, Alex Humann, Roelma via Heidenau/Saale).
Production of luminescent substances (RFT Leuchtstoffwerk in Bad Liebenstein).

Resolution: Approved, except for barium aluminum alloy. The contract will be concluded with the BDT. The decision regarding barium aluminum alloy will be deferred until final clarification.

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25X1 * Comment. The report indicates the close cooperation between the Soviet Zone of Germany and Poland in the electrical engineering field. This economic cooperation with the Soviet satellites started after the Soviet Zone was received into the Komekon (an organization for economic cooperation between Communist countries). This cooperation between Poland and the Soviet Zone was especially stipulated in a supplement to the Soviet Zone-Polish Trade Agreement of May 1951.

25X1 * Comment: Bund deutscher Techniker

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